

REMARKS

Claims 1-10 were rejected under 35 U.S.C 103(a) as allegedly unpatentable over U.S. patent 6,011,662, issued to Evans in view of U.S. patent 5,777,694, issued to Poradish. Applicant respectfully traverses the rejection made by the Examiner for at least the reasons discussed below.

Claim 1 recites a color filter assembly rotating around a central axis thereof. The color filter assembly comprises a carrier, a color filter, and a plurality of balancing elements. The carrier has a plurality of holes and rotating around the central axis. The color filter is fixed to the carrier. The balancing elements are individually located and radially movable in the holes of the carrier so that the balancing elements adjust the center of mass of the color filter assembly to be on the central axis.

Evans discloses a custom color wheel 100 comprising a hub 110, a plurality of color elements 120 and 125 and a plurality of pegs 151 and 152. Each color element 120 is firmly held in the hub 110. The hub 110 has concave openings 331, 335. Each color element 125 on the color wheel 100 is held between the two pegs 151, 152. The color element 125 has concave openings 331, 335. The pegs 151, 152 are respectively engaged with the concave openings 331, 335. Significantly, Evans does not disclose that the pegs 151, 152 are movable in the concave openings 331, 335 in the radial direction. That is, Evans does not disclose the balancing elements are individually located and radially movable in the holes of the carrier as disclosed in Claim 1. For at least this reason, claim 1 patently defines the cited art.

Further, Poradish discloses a color wheel 15 with plastic film filters comprising a rigid two-piece hub 23 and a plurality of color filter segments 21. The hub 23 has a front piece 23a and a back piece 23b. The front piece 23a and the back piece 23b are attached in a manner that

clamps filter segments 21 into place. The front piece 23a has a plastic sleeve 41 protruding from its inner surface. The back piece 23b has a corresponding center opening for receiving the sleeve 41. The hub 23 may be made thicker at mid-portion that the hub 23 is being “mass loaded” around the drive shaft of the color wheel 15 to enhance proper balance. Poradish teaches a method that combines the hub 23 and the color filter segments 21 and mid-portion of the hub 23 is thicker to enhance proper balance. Significantly, Poradish does not disclose that the hub 23 has any movable components to adjust the hub 23 in the radial direction . That is, Poradish does not disclose the balancing elements are individually located and radially movable in the holes of the carrier as disclosed in Claim 1. For at least this reason, the combination of Pordish with Evans does not disclose all of the claimed features of claim 1, and claim 1 patently defines the cited art of record.

Since Evans and Poradish do not disclose all the limitations of claim 1, claims 2-10 patently define over the cited art at least the same reason.

CONCLUSION

In view of the foregoing, it is believed that all pending claims are in proper condition for allowance. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

No fee is believed to be due in connection with this amendment and response to Office Action. If, however, any fee is believed to be due, you are hereby authorized to charge any such fee to deposit account No. 20-0778.

Respectfully submitted,

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